

REMARKS

After entry of this amendment, claims 1-27 are pending. In the present Office Action, claims 1-5 were rejected under 35 U.S.C. § 102(b) as being anticipated by Peters et al., U.S. Patent No. 6,239,485 ("Peters"). Claim 6 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Peters. Applicant respectfully traverses this rejection and requests reconsideration. Claims 7-13 are allowed. Claim 7 has been amended to correct a typographical error in the claim.

Claims 1-6

Applicant respectfully submits that each of claims 1-6 recites a combination of features not taught or suggested in the cited art. For example, claim 1 recites a combination of features including: "at least one of the plurality of sides includes at least one power pad for providing a power supply voltage to the one or more integrated circuits and wherein at least one of the plurality of sides includes at least one ground pad for providing a ground to the one or more integrated circuits, wherein both the at least one power pad and the at least one ground pad are exposed for direct physical contact with conductors external to the component package to supply the power supply voltage and the ground to the one or more integrated circuits during use".

The Office Action alleges that the power pad is taught by element 108 in Fig. 1 of Peters and that the ground pad is taught by element 500. Applicant respectfully disagrees. Element 108 is referred to as a "power/ground wrap" (see Peters, col. 3, line 55) and refers to the entire "U shaped" structure that envelopes the signal core 106. Furthermore, the layer that the element number 108 is touching is a ground layer, per the key at the bottom of Fig. 1. The element indicated by reference number 500 connects two ground layers as well. Thus, neither of these structures in Fig. 1 is a power pad. In the specification, Peters does state that an edge connector can be used to connect power planes, but states "e.g. the upper surface of the lower power/ground substrate to the lower surface of the upper power/ground substrate" (Peters, col. 4, lines 17-19). The element that is shaped like a backward "E" to the inside of the element 500 connects power planes in this fashion, but is enclosed by the element 500. The Office Action also refers to

Peters' teaching that edge connectors may be used at both ends of the two power/ground substrates (Peters, col. 4, lines 20-25). However, Peters shows such a structure in Fig. 6, and the edge connectors 500 and 502 on each end are connecting the ground planes, with power plane connections made by the "E" and backwards "E" shaped connectors that are inside the edge connectors 500 and 502 in Fig. 6. Thus, none of the connectors in Peters teaches "at least one of the plurality of sides includes at least one power pad for providing a power supply voltage to the one or more integrated circuits" as recited in claim 1.

Applicant has further clarified claim 1, reciting "both the at least one power pad and the at least one ground pad are exposed for direct physical contact with conductors external to the component package to supply the power supply voltage and the ground to the one or more integrated circuits during use". There is no power layer or other structure in Fig. 1 that corresponds to a power pad, wherein "both the at least one power pad and the at least one ground pad are exposed for direct physical contact with conductors external to the component package to supply the power supply voltage and the ground to the one or more integrated circuits during use".

For at least all of the above reasons, Applicant submits that claim 1 is patentable over the cited art. Claims 2-6, being dependent from claim 1, are similarly patentable over the cited art for at least the above stated reasons. Each of claims 2-6 recites additional combinations of features not taught or suggested in the cited art.

New Claims 14-27

Applicant respectfully submits that new claims 14-27 recite combinations of features not taught or suggested in the cited art. For example, claim 14 recites a combination of features including: "a second circuit board configured to be placed over a top of the component... the second circuit board including a bottom side that faces the component during use, the bottom side of the second circuit board comprising a first plurality of conductive pads to be electrically coupled to a corresponding second plurality of conductive pads on the component, the second plurality of conductive pads supplying power and ground connection to the component during use". Applicant submits that the

cited art does not teach or suggest the above highlighted features, in combination with the other features of claim 14. Each of claims 15-27 depend from claim 14 and recite additional combinations of features not taught or suggested in the cited art.

PTO-1449 Form

The present Office Action has an attached PTO-1449 form. However, the PTO-1449 form attached to the present Office Action is not the PTO-1449 form that Applicant submitted in the IDS filed March 25, 2004 and was received in the PTO on March 29, 2004. Rather, the PTO-1449 form attached to the present Office Action appears to belong to a different application. Applicant has verified in the private PAIR system that the PTO-1449 form in the IDS in the image file wrapper for the present application is the correct PTO-1449 form. Applicant respectfully requests a return of the PTO-1449 form from the March 29, 2004 IDS with the next action. Applicant also files herewith a supplemental IDS.

CONCLUSION

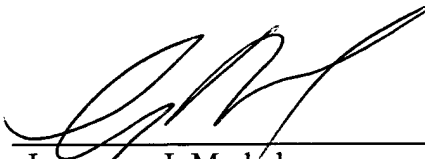
Applicant submits that the application is in condition for allowance, and an early notice to that effect is requested.

If any extensions of time (under 37 C.F.R. § 1.136) are necessary to prevent the above referenced application(s) from becoming abandoned, Applicant(s) hereby petition for such extensions. If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert, & Goetzel, P.C. Deposit Account No. 501505/5500-99300/LJM.

Also enclosed herewith are the following items:

- ☒ Return Receipt Postcard
- ☐ Petition for Extension of Time
- ☐ Request for Approval of Drawing Changes
- ☐ Notice of Change of Address
- ☒ Please debit the above deposit account in the amount of \$530 for fees (\$180 IDS fee, \$350 for 7 claims in excess of 20).
- ☒ Other: IDS, including PTO-1449 form and references

Respectfully submitted,



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